

# Baby Care Skin Protectant Compositions for Diaper Rash

## Abstract

The present invention provides a comprehensive solution to skin problems of infants and incontinent adults related to diaper rash, also known as diaper dermatitis. This is based on certain novel divalent metal and quaternary ammonium complexes (ion-pairs) of zeolites (that are made by an in-situ process), which in synergistic combination with certain other compositions, provide a comprehensive treatment for diaper rash that encompasses the following aspects: (1) deactivation of lipase and protease enzymes on skin surface, (2) the controlled-release delivery of skin protectant compositions, such as divalent metal zinc cation, (3) trapping of acidic and alkaline chemicals deposited on skin from body exudates and enzyme activity, (4) controlled-release delivery of anti-inflammatory agents, and COX and LOX enzyme inhibitors, (5) controlled-release delivery of antibacterial and antifungal compositions, and (6) absorption of excess moisture in the diaper zone.